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MONTANA OIL AND GAS STATISTICAL BULLETIN

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OIL AND GAS CONSERVATION COMMISSION
SAVINGS BLDG.

HELENA, MONTANA

Vol. XVIII, No. 10 **October, 1970**

Production of crude oil and condensate from the oil and gas areas of Montana for the month of October, 1970 averaged 102,177 barrels daily, an increase of 825 barrels from the average September, 1970 production of 101,846.

The nine refineries in the state processed 125,082 barrels of crude oil daily for the month of October, 1970, a decrease of 12,452 barrels from the 137,534 barrels processed daily during the month of September, 1970.

During October 35 wells were completed, 9 oil, 1 gas and 25 dry holes.

During October the commission issued 54 permits to drill new wells, an increase of 14 from the 40 permits issued during September.

SUMMARY OF CRUDE OIL PRODUCTION REFINING, STORAGE, ETC., IN MONTANA MONTH OF OCTOBER, 1970

IN STORAGE OCTOBER 1st	
By Producers	334,184
By Transporters	1,244,899
By Refiners	808,007
TOTAL STORAGE	2,387,090
Produced in Montana During Month	3,167,479
Imported During Month	3,091,771
TOTALS	8,646,340
DISPOSITION:	
Refined in Montana	3,877,551
Exported	2,337,187
Used for Fuel or Lost	16,152
TOTAL	6,230,890
IN STORAGE OCTOBER 31st	
By Producers	323,301
By Transporters	1,259,338
By Refiners	832,811
TOTAL STORAGE	2,415,450

NATURAL GAS WITHDRAWALS IN MONTANA

Month of October, 1970

Field	M. Cu. Ft.
Bell Creek	441,571
Big Coulee	81,732
Blackjack	70,779
Bowdoin	147,125
Bowes	32,063
Cabin Creek	114,027
Cedar Creek	67,287
Cut Bank (Including Reagan)	587,715
Devon	0
Dry Creek	39,935
Elk Basin	106,383
Flat Coulee	31,951
Gold Butte	4,861
Grandview	46,272
Hardin	2,954
Keith Block	177,495
Kevin Sunburst	49,048
Lake Basin	97,217
Middle Butte	4,502
Mt. Lilly	69,527
Pine	56,729
Plevna	5,914
Squaw Coulee	68,232
Tiger Ridge	41,394
Utopia	51,454
Whitlash	98,155
Miscellaneous	411,365
TOTAL	2,905,687

Total withdrawals for October 1969 were 3,424,640.

PRODUCERS REPORT — MONTH OF OCTOBER, 1970

Leases	Field	No. of Wells	Storage 1st of Month	Oil Produced	Oil Shipped By Pipeline	Oil Shipped By Truck	Used or Lost	Storage End of Month
3	Ash Creek	3	109	2,068	———	2,081	———	96
1	Bainville	1	2,918	5,593	———	5,578	———	2,933
1	Bannatyne	1	573	823	823	———	———	573
—	Bascom	———	165	———	———	———	———	165
3	Bear's Den	4	1,560	604	———	1,031	———	1,133
53	Bell Creek	364	45,323	557,796	558,494	———	1,354	43,271
—	Benrud	———	120	———	———	———	———	120
2	Benrud East	2	1,482	13,666	14,205	———	———	943
1	Benrud Northeast	1	480	2,595	2,471	———	———	604
—	Berthelote	———	267	———	———	———	———	267
6	Big Wall	17	1,662	10,999	10,901	———	———	1,760
5	Blackfoot	6	1,271	3,214	3,355	———	———	1,130
6	Border	6	406	1,654	663	858	———	539
1	Bowes	58	4,847	16,704	15,251	———	———	6,300
1	Bradley	1	201	614	608	———	———	207
—	Brady	———	324	———	———	———	———	324
4	Brorson-Madison	4	2,028	4,708	———	5,603	———	1,133
6	Brorson-Red River	6	3,975	21,423	———	19,725	———	5,673
3	Brorson-Red River South	3	1,671	10,501	———	11,052	———	1,120
5	Brush Lake	5	389	24,436	24,436	———	———	389
2	Cabin Creek	98	———	332,715	332,715	———	———	———
1	Canal	1	905	15,852	———	15,279	———	1,478
13	Cat Creek	64	2,050	15,171	13,703	1,231	———	2,287
1	Clark's Fork	1	140	315	———	328	———	127
—	Clark's Fork South	———	312	———	———	196	40	76
4	Conrad South	4	173	1,204	1,204	———	———	173
1	Cow Creek	1	499	4,630	———	4,642	———	487
1	Culbertson	1	409	2,339	———	2,200	———	548
2	Cupton	2	2,207	1,832	———	2,459	———	1,580
131	Cut Bank	856	53,525	503,243	500,205	———	17	56,546
—	Dean Dome	———	65	———	———	———	———	65
2	Deer Creek	2	746	1,717	2,112	———	———	351
1	Delphia	1	320	116	———	285	———	151
—	Devil's Basin	———	671	———	———	———	———	671
3	Dwyer	14	5,708	28,416	30,174	———	———	3,950
3	Elk Basin	51	965	178,106	178,173	———	———	898
5	Elk Basin Northwest	9	8,262	9,921	9,898	———	———	8,285
6	Fairview	11	6,358	44,651	42,027	———	146	8,836
2	Fertile Prairie	2	593	1,435	———	1,401	———	627
9	Flat Coulee	28	5,211	8,885	9,760	———	———	4,336
48	Flat Lake	65	6,782	69,331	70,101	———	———	6,012
3	Flat Lake South	3	1,459	5,219	5,720	———	57	901
1	Frannie	1	———	620	620	———	———	———
12	Fred & George Creek	34	1,554	36,805	36,368	———	———	1,991
—	Gage	———	129	———	———	———	———	129
2	Gas City	16	7,697	23,891	23,604	3,748	———	4,236
2	Girard	2	679	5,515	———	5,005	11	1,178
11	Glendive	15	2,473	28,100	23,585	3,658	———	3,330
28	Goose Lake	34	6,850	43,752	43,729	———	———	6,873
9	Graben Coulee	19	4,406	4,303	502	3,122	———	5,085
—	Gypsy Basin	———	749	———	———	———	———	749
—	Hardscrabble Creek	———	58	———	———	———	58	———
2	Hay Creek	2	449	12,257	11,978	———	———	728
7	Hiawatha	7	3,436	9,082	9,808	———	———	2,710
1	Hibbard	1	336	271	———	208	———	399
1	Injun Creek	1	930	200	———	200	———	930
6	Ivanhoe	12	2,245	7,356	7,927	———	181	1,493
7	Keg Coulee	17	3,852	15,769	14,933	———	———	4,688
2	Keg Coulee North	2	555	685	890	———	———	350
1	Kelley	5	1,105	3,814	4,102	———	———	817
80	Kevin Sunburst	295	9,698	27,600	24,932	2,218	722	9,426
8	Laird Creek	10	574	4,581	———	4,212	1	942
2	Leary	2	1,199	1,187	———	817	———	1,569
1	Little Beaver	23	———	29,647	29,647	———	———	———
2	Little Beaver East*	13	2,560	14,488	15,523	———	———	1,525
2	Lodge Grass	2	799	1,670	———	1,834	———	635
3	Lookout Butte (Coral Creek)	31	1,362	81,459	82,001	———	———	820
—	Mackay Dome	———	1,134	———	———	———	———	1,134
2	Mason Lake	2	386	840	1,009	———	———	217
3	Melstone	4	1,851	1,778	2,636	———	———	993
1	Mineral Bench	1	458	944	866	———	———	536
1	Miner's Coulee	2	107	251	———	251	———	107
11	Monarch	14	5,786	19,589	15,535	5,473	———	4,367
2	Mosser	2	———	378	———	378	———	———
6	Outlook	9	5,537	16,430	14,941	———	———	7,026
1	Outlook South	1	958	1,177	1,757	———	———	378
2	Outlook West	2	1,403	3,355	3,776	———	———	982
1	Pennel-Lookout Butte	112	———	133,698	133,578	———	120	———
4	Pine	116	17,202	275,789	276,010	———	———	16,981
1	Pole Creek	1	78	———	———	———	———	78
62	Pondera	270	7,041	24,969	25,462	———	———	6,548
7	Poplar	66	8,840	55,516	56,706	———	1	7,649
3	Poplar Northwest	3	1,687	1,956	2,016	———	———	1,627
1	Prairie Elk	1	1,548	107	1,309	———	———	346
4	Pritchard Creek	4	167	1,290	1,290	———	———	167
4	Ragged Point	12	3,076	6,476	6,811	———	———	2,741
2	Rattlesnake Coulee	2	559	558	600	———	———	517
2	Reagan	46	327	21,512	21,373	———	———	466
1	Red Creek	21	———	17,950	17,950	———	———	———
1	Red Fox	1	284	832	933	———	———	183
1	Redstone	1	601	3,068	3,231	———	———	438
1	Repeat	1	220	1,917	———	1,871	———	266
4	Reserve	4	———	11,074	11,074	———	———	———
1	Richey	1	403	659	651	———	———	411
1	Richey Southwest	6	45	3,522	———	3,272	———	295
—	Rough Creek	———	266	———	———	———	———	266
1	Rush Mountain	1	450	3,164	3,247	———	———	367
6	Sand Creek	8	2,203	6,515	4,596	———	———	4,122
1	Shotgun Creek	1	148	522	———	334	———	336
1	Sidney	1	400	848	———	848	100	300
1	Snyder	1	901	715	———	1,387	———	229
6	Soap Creek	17	2,794	6,710	———	7,056	———	2,448
1	Spring Lake	2	963	2,927	———	2,525	———	1,365
1	Stensvad	6	2,189	24,833	24,179	———	———	2,843
12	Sumatra	80	13,986	52,643	57,792	———	106	8,731
5	Tule Creek	6	2,680	34,626	5,990	28,237	———	3,079
2	Tule Creek East	2	1,020	9,702	———	10,137	———	585
2	Tule Creek South	3	1,129	3,999	———	4,143	13	972
2	Vida	2	691	1,866	———	1,741	———	816
4	Volt	4	2,426	12,756	13,274	———	———	1,908
2	Weed Creek	3	387	3,231	3,238	———	5	375
3	Weldon	7	1,441	22,237	22,492	———	———	1,186
1	West Butte	1	———	2,111	———	2,111	———	———
17	Whitlash	31	7,569	13,330	14,062	———	———	6,837
1	Whitlash West	1	664	375	621	———	———	418
—	Wibaux	———	132	———	———	———	132	———
2	Wills Creek South	2	———	3,460	3,460	———	———	———
6	Wolf Springs	8	2,758	6,974	6,480	———	———	3,252
2	Woodrow	2	314	2,834	2,742	———	———	406
3	Wright Creek	5	1,401	3,543	2,851	———	———	2,098
1	Wildcat, Blaine Cty	1	94	144	———	———	———	238
—	Wildcat, Carbon Cty	———	310	———	———	———	———	310
1	Wildcat, Daniels Cty	1	477	1,298	———	1,576	———	199
1	Wildcat, Fallon Cty	4	1,101	12,601	———	12,491	———	1,211
2	Wildcat, Glacier Cty	3	838	787	400	———	———	1,225
1	Wildcat Liberty Cty	1	362	41	———	205	———	198
3	Wildcat, Musselshell Cty	3	544	7,667	———	7,560	———	651
7	Wildcat, Richland Cty	7	2,703	53,972	———	53,670	———	3,005
1	Wildcat, Roosevelt Cty	1	———	7,627	———	6,922	———	705
1	Wildcat, Sheridan Cty	1	319	362	———	182	———	499
1	Wildcat, Toole Cty	1	———	1,871	———	1,871	———	———
760	Totals	3,162	334,184	3,167,479	2,922,086	253,212	3,064	323,301

Total Oil Produced & Shipped From Leases	Bbls. Produced	Daily Average	Bbls. Shipped	Daily Average
Year, 1969	43,954,112	120,422	44,000,549	120,549
1st Quarter, 1970	9,744,920	108,306	9,724,779	108,062
2nd Quarter, 1970	9,446,320	103,806	9,442,315	103,542
3rd Quarter, 1970	9,339,576	101,517	9,120,597	99,137
October, 1970	3,167,479	102,177	3,175,297	102,429

Oil In Storage	In Producers Field Tank	In Transporters Storage	In Refiners Storage‡	Total Oil In Storage‡
December, 1969	351,210	1,237,355	731,177	2,319,742
March, 1970	362,487	1,382,147	387,559	2,132,193
June, 1970	374,566	1,704,027	1,084,703	3,163,296
September, 1970	334,184	1,244,899	808,007	2,387,090
October, 1970	323,301	1,259,338	832,811	2,415,450

*Montana Oil Only. ‡Includes Wyoming Oil.

TRANSPORTERS REPORT — MONTH OF OCTOBER, 1970

	Storage First of Month	OIL RECEIVED BY			Loss or (Gain)	OIL SHIPPED TO			Storage End of Month
		Pipeline	Truck	Connecting Carrier		Montana	Other States	Connecting Carrier	
ASH CREEK—Truck			2,081				2,081		
BAINVILLE—									
Rock Island Oil & Ref. Co.			5,578				5,578		
BEAR'S DEN—Truck			1,031				1,031		
BELL CREEK—Pipeline	70,529	558,494					510,952	60,990	57,081
BIG WALL—									
Continental Pipeline Co.		10,901				10,901			
BLACKFOOT—									
Camerland Cardinal Corp.		3,355						3,355	
BORDER—Permian Corp.			858					858	
BOWES—Texaco Inc.		15,251				15,251			
BRORSON-MADISON—									
Rock Island Oil & Ref. Co.			5 603					5,603	
BRORSON-RED RIVER & BRORSON-RED RIVER SOUTH—									
Rock Island Oil & Ref. Co.			30,777					30,777	
BRUSH LAKE—Portal Pipeline Co.		24,436					24,436		
CABIN CREEK & OTHERS—*									
Butte Pipeline Co.	335,511	797,148	25,496	596,199			1,387,745		366,609
Shell Pipeline Co.	3,106	283,378			716			281,775	3,993
	338,617	1,080,526	25,496	596,199	716		1,387,745	281,775	370,602
CANAL—Rock Island Oil & Ref. Co.			15,279				15,279		
CAT CREEK—									
Continental Pipeline Co.		13,703				13,703			
Truck			1,231			1,231			
		13,703	1,231			14,934			
CLARK'S FORK—Permian Corp.			328				328		
CLARK'S FORK SOUTH—Truck			196				196		
COW CREEK—West. Crude Oil Corp.			4,642				4,642		
CULBERTSON—Spruce Oil Co.			2,200				2,200		
CUT BANK—									
Continental Pipeline Co.			10,041	497,563				507,604	
Phillips Petroleum Co.	91,258	163,335			2,887	128,696		46,097	76,913
Texas Pipeline Co.	17,546	71,330		77,753	297	151,597			14,735
Union Oil Co.	77,204	69,183		52.067	(4,811)	130,303			72,962
Western Oil Trans. Co.		80,119						80,119	
Western Oil Trans. Co. (Moulton)		90,312						90,312	
	186,008	474,279	10,041	627,383	(1,627)	410,596		724,132	164,610
DELPHIA—Truck			285			285			
DWYER—Portal Pipeline Co.		30,147					30, 147		
ELK BASIN & ELK BASIN NORTHWEST—									
Marathon Pipeline Co.		187,365				187.365			
FAIRVIEW—Fairview Pipeline Co.		42,027					42,027		
FLAT COULEE—									
Camerland Cardinal Corp.		9,050						9,050	
FLAT LAKE & FLAT LAKE SOUTH—Portal Pipeline Co.		70,045					70,045		
FRANNIE—Interstate Pipeline Co.		620					620		
FRED & GEORGE CREEK—									
Camerland Cardinal Corp.	14,880	40,108				37,941			17,047
GIRARD—Rock Island Oil & Ref. Co			5,005				5,005		
GLENDIVE, DEER CREEK, WOODROW & SAND CREEK—									
Texas Pipieline Co.	7,382	31,780			1,836			29,839	7,487
GOOSE LAKE—									
Portal Pipeline Co.		40,109					40,109		
HAY CREEK—									
Fairview Pipeline Co.		11,978					11,978		
HIAWATHA—									
Continental Pipeline Co.		9,417					9,417		
HIBBARD—Truck			208			208			
INJUN CREEK—Permian Corp.			200				200		
IVANHOE—									
Continental Pipeline Co.		7,927				7,927			
KEG COULEE & KEG COULEE NORTH—									
Continental Pipeline Co.		15,823				15,823			
KELLEY—									
Continental Pipeline Co.		4,102				4,102			
KEVIN SUNBURST—									
Big West Oil Co.	3,351	17,139				14,430			6,060
Homestake Oil & Gas Co.	2,517	2,020				1,810			2,727
Texas Pipeline Co.	7,154	10,324		2,226	187			12,538	6,979
	13,022	29,483		2,226	187	16,240		12,538	15,766
LEARY—Permian Corp.			817				817		
LODGE GRASS—Permian Corp.			1,834			1,834			
MASON LAKE—									
Continental Pipeline Co.		1,009				1,009			
MELSTONE—									
Continental Pipeline Co.		2,636				2.636			
MOSSER—Truck			378				378		
OUTLOOK, OUTLOOK SOUTH & OUTLOOK WEST—									
Portal Pipeline Co.		20,601					20,601		
PONDERA—Phillips Petr. Co.	44,011	26,580			463	23.433			46,695
POPLAR, BENRUD, BENRUD EAST, RED FOX, REDSTONE, RICHEY, TULE CREK, TULE CREEK SOUTH AND VOLT—									
East Poplar Gathering System	15,400	98,718			559			99,602‡	13,957
RAGGED POINT—									
Continental Pipeline Co.		6,773				6.773			
RED CREEK—									
Western Oil Transportation Co.		20,836						20,836	
RESERVE—Portal Pipeline Co.		10,839					10,839		
RUSH MOUNTAIN—									
Sinclair Refining Co.		3.247					3,247		
SHOTGUN CREEK—Truck			334				334		
SIDNEY—Truck			848					848	
SNYDER—Permian Corp.			1,387			1.387			
SOAP CREEK—Permian Corp.			7,056				7,056		
SPRING LAKE—									
Rock Island Oil. & Ref. Co.			2,525				2,525		
SUMATRA & STENSVAD—									
Continental Pipeline Co.	549,902	77,345		1,714,951	5.265	66.474		1,715,041	555,418
TULE CREEK—									
Spruce Oil Corp.	5,148		38,374			32,847			10,675
Permian Corp.			4,143			4,143			
	5,148		42,517			36,990			10,675
WEED CREEK—									
Continental Pipeline Co.		3,238				3,238			
WHITLASH & WHITLASH WEST—									
Camerland Cardinal Corp.		14,590				14.590			
WOLF SPRINGS—									
Continental Pipeline Co.		6,480				6.480			
WILDCAT WELLS—Truck			84,477				84,477		
TOTALS	1,244,899	3,003,818	253,212	2,940,759	7.399	886,417	2,294,290	2,995,244	1,259,338

*Cabin Creek, Cupton, Fertile Prairies, Gas City, Little Beaver, Little Beaver East, Lookout Butte, Monarch, Pennel, Pine, Richey, Richey Southwest, Weldon & Wills Creek South.

‡Transferred to Butte Pipeline Company.

BARRELS OF CRUDE OIL REFINED IN MONTANA
MONTH OF OCTOBER, 1970

Field	Big West Oil Co	Continental Oil Co.	Diamond Asphalt Co.	Farmers Union	Humble Oil & Ref. Co.	Jet Fuel Refinery	Phillips Petr. Co.	Spruce Oil Co.	Union Oil Co.	Total
Big Wall		10,901								10,901
Bowes			22,234							22,234
Cat Creek		2,745		13,725						16,470
Cut Bank	6,610						110,155		127,362	244,127
Elk Basin		74,489		47,681	65,195					187,365
Fred & George Creek	37,941									37,941
Ivanhoe		7,927								7,927
Keg Coulee		3,740		11,440						15,180
Kelley					4,102					4,102
Kevin Sunburst	16,240									16,240
Lodge Grass		1,834								1,834
Mason Lake		1,009								1,009
Melstone				2,636						2,636
Pondera							27,204			27,204
Ragged Point				6,773						6,773
Snyder		1,387								1,387
Sumatra & Stensvad		11,233		55,241	15,000					81,474
Tule Creek								76,668		76,668
Weed Creek					3,238					3,238
Whitlash							14,590			14,590
Wolf Springs					6,480					6,480
Total Montana Oil	60,791	115,265	22,234	137,496	94,015		151,949	76,668	127,362	785,780
Canadian Oil Imported		514,641		453,282	255,773					1,223,696
Wyoming Oil Imported		780,038		181,340	906,697					1,868,075
Total Montana, Canadian, and Wyoming Oil	60,791	1,409,944	22,234	772,118	1,256,485		151,949	76,668	127,362	3,877,551

AVERAGE BARRELS PER DAY

	Montana	Canada	Wyoming	Total
Year, 1969	25,966	13,237	71,981	111,184
October, 1969	33,992	19,872	67,234	121,098
October, 1970	25,348	39,474	60,260	125,082

PERCENTAGE OF CRDUE OIL REFINED

	Montana	Canada	Wyoming
Year, 1969	23.35%	11.91%	64.74%
October, 1969	28.07%	16.41%	55.52%
October, 1970	20.26%	31.56%	48.18%